

A HIGH SPEED LENSLESS FIBER TO PHOTODETECTOR INTERFACE

ABSTRACT OF THE DISCLOSURE

In an exemplary embodiment of the present invention, a high speed optical receiver interface includes a housing adapted to receive a distal end of a fiber having a slanted end face. The slanted end face reflects the received signal along a received optical path. The fiber cladding material along the reflected optical path may be polished or etched to reduce the thickness of the cladding to reduce the separation distance between a photodetector and the slanted end face of the fiber. The reduced separation distance also reduces the beamwidth of the reflected signal that is incident upon the photodetector. An exemplary optical receiver may therefore efficiently couple the incident optical signal onto a photodetector with a reduced active area diameter that is capable of operating at increased data rates.

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